IN THE CLAIMS:

1	1.	An interactive TV contextual content surfing system comprising:		
2		a) creating apparatus, which creates program content for hyperlinking to		
3	other program content;			
4		b) Broadcast apparatus which broadcast interactive TV program content with		
5	hyperlinks to	other content;		
6		c) receiver apparatus which receives and processes the interactive TV		
7	program conte	ent with hyperlinks for display to a viewer; and		
8		d) enabling apparatus, which enables a viewer to hyperlink from a program		
9	being viewed to a related program.			
1	2.	The system of Claim 1 further wherein the enabling apparatus enables the viewer		
2	to hyperlink fr	om a scheduled or recorded program to a related program.		
1	3.	The system of Claim 1 further wherein the enabling apparatus enables the viewer		
2	to hyperlink to	a recording dialog when a related program may be in progress, previously		
3	recorded or sc	heduled or broadcast in the future.		
1	4.	The system of Claim 1 further comprising:		
2		g) broadcast apparatus which transmits audio/video program content and		
3	program class	ification, together or in separate channels to the receiver; and		

4		h)	control apparatus, which enables the viewer to interact with the program	
5	content and the program classification.			
1	5.	The s	ystem of Claim 1 further comprising:	
2		i)	control apparatus at the receiver which groups program content by	
3	deduction bas	sed on v	viewer TV habits or information provided by the viewer.	
1	6.	The s	ystem of Claim 1 further comprising:	
2		J)	receiver apparatus which providesalternative hyperlinking of program	
3	content.			
1	7.	An int	teractive TV contextual content surfing system using inter-channel	
2	hyperlinking,	compri	sing:	
3		(a)	a content creation station generating and transmitting interactive program	
4	information and classification information in a data streaming format;			
5		(b)	a TV broadcast station for receiving the streaming data;	
6		(c)	a broadcast server for processing classification categories in the streaming	
7	data and hype	erlinking	g program information in related categories;	
8		(d)	a network coupled to the TV broadcast station for transmitting in separate	
9	channels the	ΓV prog	gram information and classification information to a local TV station for	
10	retransmission	n to TV	devices equipped with set-top boxes or directly transmitting the program	

11

information directly to the set-top boxes; and

guide in a second classification table.

1	13.	The	system of Claim / further comprising:	
2		k)	local storing apparatus in the set-top box which stores recorded programs	
3	and classifies	catego	ories of programs in a third classification table.	
1	14.	A me	ethod for interactive TV contextual content surfing using inter-channel	
2	hyperlink, co	nk, comprising the steps of:		
3		a)	creating program content including a description of program type,	
4	producers, pla	ayers,	etc., for classification purposes;	
5		b)	transmitting the program content in a streaming data format to a broadcast	
= 6	station and a broadcast server;			
7 7 8 9		c)	generating a correspondence table between TV program categories and	
2 8	TV channel numbers in the broadcast server;			
		d)	creating a hyperlink information of channels that are broadcasting the	
<u>10</u>	same nature o	f prog	grams by referencing the correspondence table;	
10 11 11 12		e)	broadcasting the hyperlink information to the list of channels in the	
12	corresponden	ce tabl	e;	
13		f)	transmitting the broadcast program information to a TV device including a	
14	set-top box via a first channel;			
15		g)	transmitting the hyperlinking information to the set-top box via a second	
16	channel; and			
17		h)	processing the broadcast hyperlinking information by the set-top box for	

display on a TV screen.

1	20.	The method of Claim 14 further comprising the step of:			
2		n) transmitting in separate channels the TV program information and			
3	classification	information to a local TV station for retransmission to TV devices equipped with			
4	set-top boxes	or directly transmitting the program information directly to the set-top boxes.			
1	21.	The method of Claim 14 further comprising the step of:			
2		o) generating and transmitting interactive program information and			
3	classification	information in a data-streaming format.			
1	22.	A program medium, executable in a computer system for interactive TV			
2	contextual content surfing using inter-channel hyperlink, comprising:				
2 2 3 4		a) program instructions in the medium which creates program content			
4	including a de	scription of program type, producers, players, etc., for classification purposes;			
± 5		b) program instructions in the medium which transmit the program content in			
6	a streaming da	ata format to a broadcast station and a broadcast server;			
6 7		c) program instructions in the medium which generates a correspondence			
8	table between	TV program categories and TV channel numbers in the broadcast server;			
9		d) program instructions in the medium, which creates a hyperlink			
10	information of	f channels that are broadcasting the same nature of programs by referencing the			
11	correspondence	ce table;			

program instructions in the medium, which broadcasts the hyperlink

e)

information to the list of channels in the correspondence table;

12

14		f)	program instructions in the medium, which transmits the broadcast,	
15	program information to a TV device including a set-top box via a first channel;			
16		g)	program instructions in the medium which transmits the hyperlinking	
17	information to	o the se	t-top box via a second channel; and	
18		h)	program instructions in the medium which processes the broadcast	
19	hyperlinking	informa	ation by the set-top box for display on a TV screen.	
1	23.	The p	rogram medium of Claim 22 further comprising:	
2		i)	selecting a program to view in a category and hyperlinking to another	
1 1 2 2	program in th	e catego	ory.	
1	24.	The p	rogram medium of Claim 22 further comprising:	
2		j)	creating a hyperlink list of channels that are broadcasting the same nature	
1 3 T 1 T 1	of programs b	y refere	encing the correspondence table.	
1 1	25.	The p	rogram medium of Claim 22 further comprising:	
2		k)	storing a dynamic table of correspondence between TV program	
3	categories and	d TV ch	annel numbers.	
1	26.	The p	rogram medium of Claim 22 further comprising:	
2		1)	storing recorded programs in a local storage and classifying categories of	
3	programs in l	ocal sto	rage in a third classification table.	

1	27.	A program medium, executable in an interactive TV computer system for		
2	contextual co	ntextual content surfing, comprising:		
3		a)	program instructions which create program content for hyperlinking to	
4	other progran	n conte	nt;	
5		b)	program instructions which broadcast interactive TV program content	
6	with hyperlin	with hyperlinks to other content;		
7		c)	program instructions which receives and processes the interactive TV	
8	program content with hyperlinks for display to a viewer; and			
9		d)	program instructions, which enables the viewer to hyperlink from a	
10	program bein	m being viewed to a related program.		
1	28.	The p	rogram medium of Claim 27 further comprising:	
2		e)	program instructions, which enables a viewer to hyperlink from a	
3	scheduled or	recorde	d program to a related program.	
in the second se	29.	The p	rogram medium of Claim 27 further comprising:	
2		f)	program instructions which enables a viewer to hyperlink to a recording	
3	dialog when a	a related	d program may be in progress, previously recorded or scheduled or	
4	broadcast in t	he futu	re.	

program.

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1	34.	The method of Claim 33 further comprising the step of:			
2		e) enabling a viewer to hyperlink from a scheduled or recorded program to a			
3	related progr	am.			
1	35.	The method of Claim 33 further comprising the step of:			
2		f) enabling a viewer to hyperlink to a recording dialog when a related			
3	program may	be in progress, previously recorded or scheduled or broadcast in the future.			
According to the second	36.	The method of Claim 33 further comprising the step of:			
1 2 2 3 4 4		g) broadcasting audio/video program content and program classification,			
<u> </u>	together or in separate channels to the receiver; and				
1 4		h) interacting with the program content and the program classification.			
IJ IJ1	37.	The method of Claim 33 further comprising the step of:			
		i) grouping program content at the receiver by deduction based on viewer			
3	TV habits or information provided by the viewer.				
1	38.	The method of Claim 33 further comprising the step of:			
2		J) providing alternative hyperlinking of program content.			

A broadcast server in a TV system, comprising:.

successfully processing the broadcast hyperlinking information for display on a TV screen a

viewer surfs among the channels specified in the hyperlinking information.

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1	41.	A rec	eiver for surfing hyperlinked information in a TV system, comprising:	
2		a)	storing apparatus, which receives program content including hyperlinks	
3	and related ch	nannels		
4		b)	classification information in the storing apparatus which relates program	
5	content related to related channels; and			
6		e)	control apparatus, which enables a viewer to access the classification	
7	information and surf among related channels.			
1	42.	A met	thod for surfing hyperlinked information in a TV receiver, comprising the	
2	steps of:			
3		a)	receiving program content including hyperlinks;	
4		b)	classifiying received program content in tables according to the same	
5	content; and			
6		e)	enabling a viewer to access the tables and surf among the related content.	
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1	43.	A broa	adcast server in a TV system, comprising:.	
2		a)	correspondence information between TV program categories and TV	
3	channels num	ber;		
4		b)	creation apparatus which creates hyperlinking information of channels	
5	broadcasting t	the sam	e nature of program categories by referencing the correspondence	
6	information, a	ınd		
7		c)	transmitting apparatus which transmits the hyperlinking information to TV	
8	devices where	by upo	on successfully processing the broadcast hyperlinking information for	

9 display on a TV screen, a viewer surfs among the channels specified in the hyperlinking 10 information. 1 44. A receiver for surfing hyperlinked information in a TV system, comprising: 2 storing apparatus, which receives program content including hyperlinks a) 3 and related channels; 4 classification information of program content related to the same b) channels; and 5 6 control apparatus, which enables a viewer to access the classification e) information and surf among related channels.